



Approval #

990002-U (Revised)
(Replaces 930077-U)

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2658
Madison, WI 53701-2658

Wisconsin Material Approval

Material

Precast Concrete Containment Vessel

Manufacturer

Wieser Concrete Products, Inc.
2815 Riley Rd.
Portage, WI 53901

SCOPE OF EVALUATION

The precast secondary containment vessels manufactured by Wieser Concrete Products, Inc., have been evaluated for conformance with **s. ILHR 10.345 (1)** of the Wisconsin Administrative Flammable and Combustible Liquids Code.

DESCRIPTION AND USE

The secondary containment vessels are made of steel-reinforced precast concrete. Anchor bolts are provided to tie down the storage tank. To remove rainwater from the vessel, a siphon system is mounted on the side. The siphon must be manually primed each time the vessel is to be emptied. An alternative method for water removal is a 1-inch galvanized pipe through the vessel wall at the sump using a self-closing valve.

The secondary containment systems covered by this approval are sized as described in Table 1 below.

Table 1
Secondary Containment Sizes

<u>Model Number</u>	<u>Spill/Leak Capacity</u>	<u>Tank Size</u>
SL300	405 Gallons	300 Gallons/38" Diameter
SL550A	886 Gallons	550 Gallons/48" Diameter or 560 Gallons/48" Diameter
SL1000	1,317 Gallons	1,000 Gallons/48" Diameter
SL1500	1,895 Gallons	1,500 Gallons/64" Diameter
SL2000	2,500 Gallons	2,000 Gallons/64" Diameter

TESTS AND RESULTS

Structural calculations were prepared by Registered Engineer John O. Hamel of Lake Delton, Wisconsin.

A videotape of an actual collision test is on file with the department.

LIMITATIONS OF APPROVAL

The vessels shall be sized to provide adequate capacity as required under **s. ILHR 10.345** for the tank sizes listed in Table 1.

The siphon system and self-closing valve system for the removal of water from the vessel are approved for compliance with **s. ILHR 10.345 (1)(b)**.

The vessels shall be sized to provide sufficient clearance for visual inspection of the tank as required under **s. ILHR 10.415 (13)(a) 1**. No additional clearance for collision protection is required provided the tank is centered in the vessel and firmly bolted to the vessel.

Additional collision protection, such as posts or rails in accordance with **s. ILHR 10.415 (8)**, is not required provided piping or electrical connections to the storage tank are not additionally supported by the tank or attached to the containment vessel. Shear valves, flexible connectors or other protective

devices will be required on the electrical and/or product lines to assure adequate system flexibility should the system be displaced by a collision.

Unusual or heavy traffic patterns may require additional visual warning or collision protection.

This approval will be valid through December 31, 2004, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Approval Date: _____

Revision Date: _____ By: _____

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